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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 11. (canceled)

12. (currently amended) A compound of formula

$$R_{2} \xrightarrow{R_{3}} N \xrightarrow{R_{4}} R_{5}$$

$$R_{1}$$

$$R_{1}$$

$$R_{2}$$

$$R_{3}$$

$$R_{4}$$

$$R_{5}$$

$$R_{5}$$

$$R_{1}$$

X denotes an oxygen or sulphur atom,

 R_1 denotes a hydrogen atom, C_{1-3} -alkyl, or hydroxy group, C_{1-4} -alkoxycarbonyl, or C_{2-4} -alkanoyl group,

R₂ denotes a hydrogen, fluorine, chlorine, bromine or iodine atom, a C₁₋₃-alkyl or nitro group,

R₃ denotes a phenyl or naphthyl group, each of which may be mono- or disubstituted by fluorine, chlorine, bromine or iodine atoms, by C_{1-3} -alkyl, C_{1-3} -alkoxy, carboxy, cyano, trifluoromethyl, nitro, amino, C_{1-3} -alkylamino, di- $(C_{1-3}$ -alkyl)-amino, C_{1-3} -alkylsulphonylamino, amino- C_{1-3} -alkyl, 2-carboxy-phenylcarbonylaminomethyl, C_{1-3} -alkylamino- C_{1-3} -alkyl, C_{2-4} -alkanoylomino- C_{1-3} -alkyl, C_{2-4} -alkanoylomino- C_{1-3} -alkyl, C_{1-3} -alkyl, C_{2-3} -alkyl, C_{2-3} -alkyl, C_{2-3} -alkyl, C_{2-3} -alkyl, C_{2-3} -alkyl, C_{2-3} -alkyl)-aminocarbonyl, C_{1-3} -alkyl, C_{2-3} -alkyl)- C_{1-3} -alkyl)-aminocarbonyl or imidazolyl- C_{1-3} -alkyl groups, while the substituents may be identical or different,

R₄ denotes a hydrogen atom or a C₁₋₃-alkyl group and

R₅ denotes a <u>substituted</u> phenyl or naphthyl group, <u>which is</u> optionally, <u>additionally</u> substituted by a C₁₋₃-alkyl group, <u>the substituted phenyl or naphthyl group being</u> each of which is additionally substituted in the aromatic moiety

by a fluorine, chlorine, bromine or iodine atom, by a C_{1-3} -alkyl, C_{1-3} -alkoxy, cyano, nitro or trifluoromethyl group,

by a C_{1-3} -alkoxy group which is substituted by a carboxy, aminocarbonyl, C_{1-3} -alkylaminocarbonyl or di- $(C_{1-3}$ -alkyl)-aminocarbonyl group or in the 2 or 3 position by an amino, C_{1-3} -alkylamino, di- $(C_{1-3}$ -alkyl)-amino, phenyl- C_{1-3} -

alkylamino, N-(phenyl- C_{1-3} -alkyl)-N-(C_{1-3} -alkyl)-amino, pyrrolidino, piperidino or hexamethyleneimino group,

by a C_{2-3} -alkenyl group optionally substituted by a di-(C_{1-3} -alkyl)-amino group, which may additionally be substituted in the alkenyl moiety by a chlorine or bromine atom,

by a C_{2-3} -alkynyl group optionally substituted by a di-(C_{1-3} -alkyl)-amino group,

by a C₁₋₃-alkyl group which is substituted by a 3- to 7-membered cycloalkyleneimino group, by a dehydropiperidino, morpholino, thiomorpholino, 1-oxido-thiomorpholino, 1,1-dioxido-thiomorpholino, piperazino, N-(C₁₋₃-alkyl)-piperazino, N-(C₁₋₃-alkanoyl)-piperazino or N-(C₁₋₅-alkoxycarbonyl)-piperazino group, whilst the abovementioned substituents may be substituted by a C₁₋₃-alkyl, phenyl or phenyl-C₁₋₃-alkyl group and the abovementioned piperidino or hexamethyleneimino groups may additionally be substituted by a C₁₋₃-alkyl group or in the 3 or 4 position by a hydroxy, C₁₋₃-alkoxy, hydroxy-C₁₋₃-alkyl, carboxy, aminocarbonyl, N-(C₁₋₃-alkyl)-aminocarbonyl group,

by a C_{1-3} -alkyl group substituted by a hydroxy, C_{1-3} -alkoxy, carboxy or cyano group, whilst a C_{1-3} -alkyl group substituted by a carboxy group may additionally be substituted in the alkyl moiety by an amino or C_{1-5} -alkoxycarbonylamino group,

by an aminocarbonylamino, amidino or guanidino group optionally substituted by one or two C_{1-3} -alkyl groups,

by a piperidino, hexamethyleneimino, morpholino, piperazino or N-(C₁₋₃-alkyl)-piperazino group,

by a formyl, carboxy or trifluoroacetyl group,

by a carbonyl group which

is substituted by a C₁₋₃-alkyl, C₁₋₃-alkoxy-C₁₋₃-alkyl, amino, C₁₋₅-alkylamino or di-(C₁₋₃-alkyl)-amino group, while the abovementioned amino and C₁₋₃-alkylamino groups may additionally be substituted at the nitrogen atom by a carboxy-C₁₋₃-alkyl group or by a C₂₋₃-alkyl group which may be substituted in the 2 or 3 position by a hydroxy, C₁₋₃-alkoxy, amino, C₁₋₃-alkylamino or di-(C₁₋₃-alkyl)-amino group,

by a pyrrolidinocarbonyl, piperidinocarbonyl, hexamethyleneiminocarbonyl, morpholinocarbonyl, piperazinocarbonyl, N- $(C_{1-3}$ -alkyl)-piperazinocarbonyl group, N- $(phenyl-C_{1-3}-alkyl)$ -piperazinocarbonyl group,

by an amidosulphonyl, pyrrolidinosulphonyl, piperidinosulphonyl or hexamethyleneiminosulphonyl group, by a C_{1-3} -alkylamidosulphonyl or di- $(C_{1-3}$ -alkyl)-amidosulphonyl group, wherein an alkyl moiety may be substituted in each case by a carboxy, aminocarbonyl, N- $(C_{1-3}$ -alkyl)-aminocarbonyl or N,N-di- $(C_{1-3}$ -alkyl)-aminocarbonyl group or, in the 2 or 3 position, by a C_{1-3} -alkylamino or di- $(C_{1-3}$ -alkyl)-amino group,

by an amino, C₁₋₅-alkylamino, C₃₋₇-cycloalkylamino, phenyl-C₁₋₃-alkylamino, phenylamino, 6-membered heteroarylamino, amino-C₁₋₃-alkyl, N-(C₁₋₅-alkyl)-amino-C₁₋₃-alkyl, di-(C₁₋₅-alkyl)-amino-C₁₋₃-alkyl, C₃₋₇-cycloalkylamino-C₁₋₃-alkyl, N-(C₁₋₅-alkyl)-C₃₋₇-cycloalkylamino-C₁₋₃-alkyl, phenylamino-C₁₋₃-alkyl, N-(C₁₋₃-alkyl)-phenylamino-C₁₋₃-alkyl, phenyl-C₁₋₃-alkylamino-C₁₋₃-alkyl or N-(C₁₋₅-alkyl)-phenyl-C₁₋₃-alkylamino-C₁₋₃-alkyl group or by a 6-membered heteroarylamino-C₁₋₃-alkyl group optionally substituted at the nitrogen atom by a C₁₋₅-alkyl group, while the N-alkyl moiety of the abovementioned groups may be substituted in each case by a cyano, carboxy, aminocarbonyl, C₁₋₃-alkylaminocarbonyl, di-

(C₁₋₃-alkyl)-aminocarbonyl, 2-[di-(C₁₋₃-alkyl)-amino]-ethylaminocarbonyl, 3-[di-(C₁₋₃-alkyl)-amino]-propylaminocarbonyl, N-{2-[di-(C₁₋₃-alkyl)-amino]-ethyl}-N-(C₁₋₃-alkyl)-aminocarbonyl or N-{3-[di-(C₁₋₃-alkyl)-amino]-propyl}-N-(C₁₋₃-alkyl)-aminocarbonyl group or in the 2 or 3 position by a hydroxy, C₁₋₃-alkoxy, amino, C₁₋₃-alkylamino, di-(C₁₋₃-alkyl)-amino, pyrrolidino, piperidino, hexamethyleneimino, morpholino, piperazino or N-(C₁₋₃-alkyl)-piperazino group and the nitrogen atom of the abovementioned amino, N-(C₁₋₅-alkyl)-amino, C₃₋₇-cycloalkylamino, phenyl-C₁₋₃-alkylamino, phenylamino, 6-membered heteroarylamino, amino-C₁₋₃-alkyl- and N-(C₁₋₅-alkylamino)-C₁₋₃-alkyl groups may additionally be substituted

by a C₁₋₅-alkoxycarbonyl group,

by a formyl, trifluoroacetyl or benzoyl group,

by a carboxy- C_{1-3} -alkyl, aminocarbonyl- C_{1-3} -alkyl, N-(C_{1-3} -alkyl)-aminocarbonyl- C_{1-3} -alkyl or N,N-di-(C_{1-3} -alkyl)-aminocarbonyl- C_{1-3} -alkyl group,

by a C_{1-5} -alkyl group which may be substituted, except in the 1 position, by a hydroxy, C_{1-3} -alkoxy, amino, C_{1-3} -alkylamino or di- $(C_{1-3}$ -alkyl)-amino group,

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by a C_{2-4} -alkanoyl group which may be substituted in the alkanoyl moiety by a carboxy, hydroxy, C_{1-3} -alkoxy, phenyl, amino, phthalimido, C_{1-3} -alkylamino, di- $(C_{1-3}$ -alkyl)-amino, pyrrolidino, piperidino, hexamethyleneimino or morpholino group or by a piperazino group optionally substituted at the nitrogen atom by a C_{1-3} -alkyl or phenyl- C_{1-3} -alkyl group, while the alkyl moiety of the abovementioned C_{1-3} -alkylamino- and di- $(C_{1-3}$ -alkyl)-amino substituents may be substituted in the 2 or 3 position by a hydroxy, C_{1-3} -alkoxy, amino, C_{1-5} -alkoxycarbonylamino, C_{1-3} -alkylamino, di- $(C_{1-3}$ -alkyl)-amino, phenyl, pyrrolidino, piperidino, hexamethyleneimino or morpholino group,

by a C_{1-5} -alkylsulphonyl group in which the alkyl moiety may be substituted except in the 1 position by a di-(C_{1-3} -alkyl)-amino, pyrrolidino, piperidino, hexamethyleneimino or morpholino group,

by a phenyl- (C_{1-3}) -alkylsulphonyl or phenylsulphonyl group optionally substituted in the phenyl moiety by a fluorine, chlorine or bromine atom or by a C_{1-3} -alkyl or C_{1-3} -alkoxy group,

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while additionally any carboxy, amino or imino group present may be substituted by a group which can be cleaved *in vivo*,

the stereoisomers isomers and the salts thereof.

13. (currently amended) The compound of formula I according to claim 12, wherein

X denotes an oxygen or sulphur atom,

 R_1 denotes a hydrogen atom, a C_{1-3} -alkyl, hydroxy, C_{1-4} -alkoxycarbonyl or C_{2-4} -alkanoyl group,

R₂ denotes a hydrogen, fluorine, chlorine, bromine or iodine atom, a C₁₋₃-alkyl or nitro group,

R₃ denotes a phenyl or naphthyl group, each of which may be mono- or disubstituted by fluorine, chlorine, bromine or iodine atoms, by C₁₋₃-alkyl, imidazolylmethyl, 2-carboxy-ethenyl, 2-(C₁₋₃-alkoxycarbonyl)-ethenyl, C₁₋₃-alkoxy, cyano, carboxy, C₁₋₃-alkoxycarbonyl, trifluoromethyl, nitro, amino, phthalimidomethyl, 2-carboxy-phenylcarbonylaminomethyl, C₁₋₃-alkylamino, di-(C₁₋₃-alkyl)-amino, C₁₋₃-alkylsulphonylamino, amino-C₁₋₃-alkyl, C₁₋₃-alkylamino-

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 C_{1-3} -alkyl, C_{2-4} -alkanoyl-amino- C_{1-3} -alkyl, N-(C_{2-4} -alkanoyl)- C_{1-3} -alkylamino- C_{1-3} -alkyl, di-(C_{1-3} -alkyl)-amino- C_{1-3} -alkyl, carboxy- C_{1-3} -alkylaminocarbonyl or C_{1-3} -alkoxycarbonyl- C_{1-3} -alkylaminocarbonyl groups, while the substituents may be identical or different,

R₄ denotes a hydrogen atom or a C₁₋₃-alkyl group and

R₅ denotes a <u>substituted</u> phenyl or naphthyl group, <u>which is</u> optionally, <u>additionally</u> substituted by a C₁₋₃-alkyl group, <u>the substituted phenyl or naphthyl group being</u> each of which is additionally substituted in the aromatic moiety

by a fluorine, chlorine, bromine or iodine atom, by a C_{1-3} -alkyl, C_{1-3} -alkoxy, cyano, nitro or trifluoromethyl group, while the abovementioned alkyl group may simultaneously be substituted by a carboxy or C_{1-3} -alkoxycarbonyl group and an amino or C_{1-4} -alkoxycarbonylamino group,

a C₁₋₃-alkyl group which is substituted by a 4- to 7-membered cycloalkyleneimino group, by a dehydropiperidino, morpholino, thiomorpholino, 1-oxido-thiomorpholino, 1,1-dioxido-thiomorpholino, piperazino or N-(C₁₋₄-alkoxycarbonyl)-piperazino group, while the abovementioned piperidino, hexamethyleneimino, morpholino, thiomorpholino, 1-oxido-thiomorpholino, 1,1-dioxido-thiomorpholino- and

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piperazino groups may be substituted by a C_{1-3} -alkyl, phenyl or phenyl- C_{1-3} -alkyl group and the abovementioned piperidino groups may additionally be substituted by a C_{1-3} -alkyl group or in the 3 or 4 position by a hydroxy, C_{1-3} -alkoxy, hydroxy- C_{1-3} -alkyl, carboxy, aminocarbonyl, N-(C_{1-3} -alkyl)-aminocarbonyl group,

by a C_{1-3} -alkyl group optionally substituted by a hydroxy, C_{1-3} -alkoxy, carboxy, C_{1-3} -alkoxycarbonyl or cyano group,

by an aminocarbonylamino, amidino or guanidino group optionally substituted by one or two C_{1-3} -alkyl groups,

by a piperidino, hexamethyleneimino, morpholino, piperazino or $N-(C_{1-3}-alkyl)$ -piperazino group,

by a formyl, carboxy, C₁₋₃-alkoxycarbonyl or trifluoroacetyl group,

by a carbonyl group which

is substituted by a C_{1-3} -alkyl, C_{1-3} -alkoxy- C_{1-3} -alkyl, amino, C_{1-5} -alkylamino or di-(C_{1-3} -alkyl)-amino group, while the abovementioned amino- and C_{1-3} -alkylamino groups may additionally

be substituted at the nitrogen atom by a carboxy- C_{1-3} -alkyl or C_{1-3} -alkoxycarbonyl- C_{1-3} -alkyl group or by a C_{2-3} -alkyl group which may be substituted in the 2 or 3 position by a hydroxy, C_{1-3} -alkoxy, amino, C_{1-3} -alkylamino or di- $(C_{1-3}$ -alkyl)-amino group,

by a pyrrolidinocarbonyl, pyrrolidinosulphonyl, piperidinocarbonyl, hexamethyleneiminocarbonyl, morpholinocarbonyl, piperazinocarbonyl, $N-(C_{1-3}-alkyl)$ -piperazinocarbonyl or $N-(phenyl-C_{1-3}-alkyl)$ -piperazinocarbonyl group,

by an amidosulphonyl, C_{1-3} -alkylamidosulphonyl or di-(C_{1-3} -alkyl)-amidosulphonyl group, wherein an alkyl moiety may be substituted by a carboxy, C_{1-3} -alkoxycarbonyl, aminocarbonyl, C_{1-3} -alkylaminocarbonyl or di-(C_{1-3} -alkyl)-aminocarbonyl group or in the 2 or 3 position may be substituted by an amino, C_{1-3} -alkylamino or di-(C_{1-3} -alkyl)-amino group,

by an amino, C_{1-5} -alkylamino, amino- C_{1-3} -alkyl, N-(C_{1-3} -alkyl)-amino- C_{1-3} -alkyl, N-(2-hydroxyethyl)-amino- C_{1-3} -alkyl, N-(3-hydroxypropyl)-amino- C_{1-3} -alkyl, di-(C_{1-5} -alkyl)-amino- C_{1-3} -alkyl, N-(C_{3-7} -cycloalkyl)-amino- C_{1-3} -alkyl, N-(C_{3-7} -cycloalkyl)-N-(C_{1-3} -alkyl)-amino- C_{1-3} -alkyl or N-(phenyl- C_{1-3} -alkyl)-amino- C_{1-3} -alkyl group, while the N-alkyl moiety of the abovementioned groups may be substituted by a cyano, carboxy,

 C_{1-3} -alkylcarbonyl, aminocarbonyl, C_{1-3} -alkylaminocarbonyl, di-(C_{1-3} -alkyl)-aminocarbonyl, 2-[di-(C_{1-3} -alkyl)-amino]-ethylaminocarbonyl, 3-[di-(C_{1-3} -alkyl)-amino]-propylaminocarbonyl, N-{2-[di-(C_{1-3} -alkyl)-amino]-ethyl}-N-(C_{1-3} -alkyl)-aminocarbonyl or N-{3-[di-(C_{1-3} -alkyl)-amino]-propyl}-N-(C_{1-3} -alkyl)-aminocarbonyl group or may be substituted in the 2 or 3 position by a hydroxy, C_{1-3} -alkoxy, amino, C_{1-3} -alkylamino, di-(C_{1-3} -alkyl)-amino or morpholino group, while the nitrogen atom of the abovementioned amino, C_{1-3} -alkylamino, amino- C_{1-3} -alkyl or N-(C_{1-5} -alkylamino)- C_{1-3} -alkyl moieties may additionally be substituted

by a C₁₋₅-alkoxycarbonyl group,

by a formyl, trifluoroacetyl or benzoyl group,

by a C_{1-5} -alkyl group which may be substituted, except in the 1 position, by a hydroxy, C_{1-3} -alkoxy, amino, C_{1-3} -alkylamino or di- (C_{1-3}) -alkylamino group,

by a C_{2-4} -alkanoyl group which may be substituted in the alkanoyl moiety by a hydroxy, C_{1-3} -alkoxy, amino, C_{2-4} -alkanoylamino, C_{1-5} -alkoxycarbonylamino, phthalimido, C_{1-3} -alkylamino, di- $(C_{1-3}$ -alkyl)-amino, N- $(C_{1-3}$ -alkyl)-phenylamino, pyrrolidino,

piperidino or morpholino group or by a piperazino group optionally substituted at the nitrogen atom by a C₁₋₃-alkyl or phenyl-C₁₋₃-alkyl group, while the N-alkyl moiety of the abovementioned groups may be substituted in the 2 or 3 position by a methoxy, di-(C₁₋₃-alkyl)-amino or morpholino group,

by a C_{1-5} -alkylsulphonyl group in which the alkyl moiety may be substituted, except in the 1 position, by a di- $(C_{1-3}$ -alkyl)-amino, pyrrolidino, piperidino, hexamethyleneimino or morpholino group,

by a pyridinyl or pyrimidinyl group,

by a phenyl, phenyl- (C_{1-3}) -alkylsulphonyl or phenylsulphonyl group optionally substituted in the phenyl moiety by a C_{1-3} -alkyl group,

by a C₁₋₃-alkoxy group which is substituted by a carboxy,

 C_{1-3} -alkoxycarbonyl, aminocarbonyl, C_{1-3} -alkylaminocarbonyl or di-(C_{1-3} -alkyl)-aminocarbonyl group or is substituted in the 2 or 3 position by an amino, C_{1-3} -alkylamino, di-(C_{1-3} -alkyl)-amino, N-(C_{1-3} -alkyl)-N-(phenyl- C_{1-3} -alkyl)-amino, piperidino or hexamethyleneimino group,

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by a prop-1-enyl, 2-chloro-prop-1-enyl or prop-1-ynyl group which is substituted in the 3 position by a di-(C₁₋₃-alkyl)-amino group,

the stereoisomers isomers and the salts thereof.

14. (currently amended) The compound of formula I according to claim 12, wherein

X denotes an oxygen atom,

R₁ denotes a hydrogen atom, a C₁₋₃-alkyl, C₁₋₄-alkoxycarbonyl or C₂₋₄-alkanoyl group,

R₂ denotes a hydrogen, fluorine, chlorine, bromine or iodine atom, a C₁₋₃-alkyl or nitro group,

R₃ denotes a phenyl group which may be mono- or disubstituted by fluorine, chlorine, bromine or iodine atoms, by C₁₋₃-alkyl, trifluoromethyl, imidazolylmethyl, 2-carboxy-ethenyl, 2-C₁₋₃-alkoxycarbonyl-ethenyl, C₁₋₃-alkoxy, cyano, carboxy, C₁₋₃-alkoxycarbonyl, nitro, amino, phthalimidomethyl, 2-carboxy-benzoylaminomethyl, C₁₋₃-alkylamino, di-(C₁₋₃-alkyl)-amino, C₁₋₃-alkylsulphonylamino, amino-C₁₋₃-alkyl, C₁₋₃-alkylamino-C₁₋₃-alkyl,

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 C_{2-4} -alkanoylamino- C_{1-3} -alkyl, N-(C_{2-4} -alkanoyl)- C_{1-3} -alkylamino- C_{1-3} -alkyl, di-(C_{1-3} -alkyl)-amino- C_{1-3} -alkyl, carboxy- C_{1-3} -alkylaminocarbonyl or C_{1-3} -alkoxycarbonyl- C_{1-3} -alkylaminocarbonyl groups, while the substituents may be identical or different,

R₄ denotes a hydrogen atom or a C₁₋₃-alkyl group and

R₅ denotes a <u>substituted</u> phenyl or naphthyl group, <u>which is</u> optionally, <u>additionally</u> substituted by a C₁₋₃-alkyl group, <u>the substituted phenyl or naphthyl group being</u> each of which is additionally substituted in the aromatic moiety

by a fluorine, chlorine, bromine or iodine atom, by a C₁₋₃-alkoxy, cyano, nitro or trifluoromethyl group,

a C₁₋₃-alkyl group which is substituted by a 4- to 7-membered cycloalkyleneimino group, by a dehydropiperidino, morpholino, thiomorpholino, 1-oxido-thiomorpholino, 1,1-dioxido-thiomorpholino, piperazino or N-(C₁₋₄-alkoxycarbonyl)-piperazino group, while the abovementioned piperidino, hexamethyleneimino, morpholino and piperazino groups may be substituted by a C₁₋₃-alkyl, phenyl or phenyl-C₁₋₃-alkyl group and the abovementioned piperidino groups may additionally be substituted by a C₁₋₃-alkyl group or may be substituted in the 3 or 4 position by a hydroxy,

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 C_{1-3} -alkoxy, hydroxy- C_{1-3} -alkyl, carboxy, aminocarbonyl, N-(C_{1-3} -alkyl)-aminocarbonyl or N,N-di-(C_{1-3} -alkyl)-aminocarbonyl group,

by a C₁₋₃-alkyl group optionally substituted by a hydroxy, C₁₋₃-alkoxy, carboxy, C₁₋₃-alkoxycarbonyl or cyano group,

by an aminocarbonylamino, amidino or guanidino group optionally substituted by one or two C_{1-3} -alkyl groups,

by a piperidino, hexamethyleneimino, morpholino, piperazino or N-(C₁₋₃-alkyl)-piperazino group,

by a formyl, carboxy, C₁₋₃-alkoxycarbonyl or trifluoroacetyl group,

by a carbonyl group which

is substituted by a C_{1-3} -alkyl, C_{1-3} -alkoxy- C_{1-3} -alkyl, amino, C_{1-5} -alkylamino or di-(C_{1-3} -alkyl)-amino group, while the abovementioned amino and C_{1-3} -alkylamino groups may additionally be substituted at the nitrogen atom by a carboxy- C_{1-3} -alkyl, C_{1-3} -alk-oxycarbonyl- C_{1-3} -alkyl or C_{1-3} -alkoxycarbonyl- C_{1-3} -alkyl group or by a C_{2-3} -alkyl group which may be substituted in the 2 or 3 position by a

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hydroxy, C_{1-3} -alkoxy, amino, C_{1-3} -alkylamino or di-(C_{1-3} -alkyl)-amino group,

by a pyrrolidinocarbonyl, pyrrolidinosulphonyl, piperidinocarbonyl or hexamethyleneiminocarbonyl group,

by an amidosulphonyl, C_{1-3} -alkylamidosulphonyl or di-(C_{1-3} -alkyl)-amidosulphonyl group, wherein an alkyl moiety may be substituted by a carboxy, C_{1-3} -alkoxycarbonyl or dimethylaminocarbonyl group or in the 2 or 3 position by a dimethylamino group,

by a straight-chain C₁₋₂-alkyl group which is terminally substituted by an amino, benzylamino, pyridylamino or pyrimidylamino group, by a C₁₋₄-alkylamino group in which the alkyl moiety may be substituted in position 2, 3 or 4 by a hydroxy or methoxy group, or by a C₁₋₂-alkylamino group substituted in the C₁₋₂-alkyl moiety by a carboxy, C₁₋₃-alkoxycarbonyl or di-(C₁₋₃-alkyl)-aminocarbonyl group, while in the abovementioned groups any hydrogen atom present at the amino nitrogen atom may additionally be replaced

by a C₃₋₆-cycloalkyl group, by a C₁₋₄-alkyl group in which the alkyl moiety may be substituted in position 2, 3 or 4 by a hydroxy group, by a

C₁₋₂-alkylcarbonyl group optionally substituted by a methoxy, carboxy, C₁₋₃-alkoxycarbonyl, amino, methylamino, dimethylamino, acetylamino, C₁₋₅-alkoxycarbonylamino, N-methyl-C₁₋₅-alkoxycarbonylamino or morpholinocarbonylamino group, by a C₁₋₅- alkoxycarbonyl, C₁₋₄-alkylsulphonyl, phenylsulphonyl or tolylsulphonyl group,

by a 3-dimethylaminopropyl or 3-dimethylamino-prop-1-enyl group,

by an ethyl group which is substituted in the 1 position by an amino or C_{1-5} -alkoxycarbonylamino group,

by an ethyl group which is substituted in the 2 position by an amino or C_{1-5} -alkoxycarbonylamino group and by a carboxy or C_{1-3} -alkoxycarbonyl group,

by an amino or C_{1-3} -alkylamino group in which the alkyl moiety may be substituted by a cyano, carboxy, C_{1-3} -alkoxycarbonyl, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group or may be substituted in the 2 or 3 position by an amino, methylamino, dimethylamino, acetylamino, N-methyl-acetylamino or morpholino group, by an N-(C_{1-3} -alkyl)-aminocarbonyl or N-(C_{1-3} -alkyl)-methylaminocarbonyl group optionally

substituted in the 2 or 3 position of the C₁₋₃-alkyl moiety by a dimethylamino group, while any hydrogen atom present at the amino nitrogen atom in the abovementioned groups may additionally be replaced

by a formyl, trifluoroacetyl, benzoyl, C_{1-4} -alkoxycarbonyl or C_{1-4} -alkylaminocarbonyl group,

by a C₂₋₄-alkanoyl group which may be terminally substituted by an amino, acetylamino, C₁₋₄-alkoxycarbonylamino, pyrrolidino, piperidino, morpholino, piperazino, 4-methylpiperazino, 4-benzylpiperazino or phthalimido group or by a C₁₋₃-alkylamino, N-acetyl-C₁₋₃-alkyl-amino or di-(C₁₋₃-alkyl)-amino group, while in the abovementioned C₁₋₃-alkylamino, N-acetyl-C₁₋₃-alkyl-amino- and di-(C₁₋₃-alkyl)-amino groups any C₁₋₃-alkyl moiety may additionally be substituted by a phenyl group or in the 2 or 3 position by a methoxy, dimethylamino or morpholino group,

by a C₁₋₄-alkylsulphonyl group in which the alkyl moiety may additionally be substituted in the 2 or 3 position by a dimethylamino, piperidino or morpholino group,

by a phenylsulphonyl or toluenesulphonyl group,

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by a C₁₋₃-alkoxy group which is substituted by a carboxy,

C₁₋₃-alkoxycarbonyl, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group or is substituted in the 2 or 3 position by an amino, methylamino, dimethylamino, N-methyl-benzylamino, piperidino or

hexamethyleneimino group,

by a C_{1-3} -alkylaminocarbonyl or di-(C_{1-3} -alkyl)-aminocarbonyl group wherein

a C₁₋₃-alkyl moiety may be substituted in the 2 or 3 position by a methoxy or

dimethylamino group,

the <u>stereoisomers</u> isomers and the salts thereof.

15. (currently amended) The compound of formula I according to claim 12,

wherein

X denotes an oxygen atom

R₁ denotes a hydrogen atom,

R2 denotes a hydrogen, chlorine or bromine atom, a methyl or nitro group,

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R₃ denotes a phenyl group which may be substituted by a fluorine, chlorine or

bromine atom, by a methyl, methoxy, aminomethyl, acetylaminomethyl, carboxy,

methoxycarbonyl or imidazolylmethyl group,

R₄ denotes a hydrogen atom,

R₅ denotes a phenyl group which is substituted

by a fluorine, chlorine or bromine atom, by a methyl, methoxy, nitro, cyano or

trifluoromethyl group,

by a methyl or ethyl group, each of which is substituted by a carboxy, C₁₋₃-

alkoxycarbonyl, cyano, azetidin-1-yl, pyrrolidino, piperidino,

4-phenylpiperidino, 3,6-dihydro-2H-pyridin-1-yl, hexamethyleneimino,

morpholino, thiomorpholino, 1-oxido-thiomorpholino, piperazino, 4-methylpipe-

razino or 4-acetylpiperazino group, while the abovementioned piperidino

groups may additionally be substituted by one or two methyl groups or may be

substituted in the 3 or 4 position by a hydroxy, methoxy, carboxy,

hydroxymethyl, C₁₋₃-alkoxycarbonyl, aminocarbonyl, methylaminocarbonyl or

dimethylaminocarbonyl group,

by a straight-chain C₁₋₂-alkyl group which is terminally substituted by an

amino or benzylamino group, by a C₁₋₄-alkylamino group in which the alkyl

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moiety in positions 2, 3 or 4 may be substituted by a hydroxy or methoxy group, by a C_{1-2} -alkylamino group substituted in the C_{1-2} -alkyl moiety by a carboxy, C_{1-3} -alkoxycarbonyl or dimethylaminocarbonyl group, while in the abovementioned groups a hydrogen atom present at the amino nitrogen may additionally be replaced

by a C_{3-6} -cycloalkyl group, by a C_{1-4} -alkyl group in which the alkyl moiety may be substituted in positions 2, 3 or 4 by a hydroxy group, or by a C_{1-2} -alkylcarbonyl group optionally substituted by an amino, methylamino or dimethylamino group,

by a 3-dimethylamino-prop-1-enyl group,

by an ethyl group which is substituted in the 1-position by an amino or C_{1-4} -alkoxycarbonylamino group,

by an amino or C₁₋₃-alkylamino group in which the alkyl moiety may be terminally substituted by a carboxy, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group or in the 2 or 3 position by an amino, methylamino, dimethylamino, acetylamino, N-acetyl-methylamino or morpholino group or by an N-(C₁₋₃-alkyl)-aminocarbonyl or N-(C₁₋₃-alkyl)-methylaminocarbonyl group optionally substituted in the 2 or 3 position by a

dimethylamino group, while a hydrogen atom present at the amino nitrogen in the abovementioned groups may additionally be substituted

by a formyl or benzoyl group,

by a C₂₋₄-alkanoyl group which may be terminally substituted by an amino, acetylamino, pyrrolidino, piperidino, morpholino, piperazino or 4-methylpiperazino group or by a C₁₋₃-alkylamino, N-acetyl-C₁₋₃-alkylamino or di-(C₁₋₃-alkyl)-amino group, while in the abovementioned C₁₋₃-alkylamino, N-acetyl-C₁₋₃-alkylamino or di-(C₁₋₃-alkyl)-amino groups a C₁₋₃-alkyl moiety may additionally be substituted in the 2 or 3 position by a methoxy, dimethylamino or morpholino group,

by a C₁₋₄-alkylsulphonyl group which may be substituted in the 2 or 3 position by a dimethylamino group,

by a pyrrolidinosulphonyl group, an aminosulphonyl,

 C_{1-3} -alkylaminosulphonyl or di-(C_{1-3} -alkyl)-aminosulphonyl group, wherein in each case a C_{1-3} -alkyl moiety may be substituted by a carboxy,

C₁₋₃-alkoxycarbonyl, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group or, except in the 1 position, by a dimethylamino group,

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by a C_{2-3} -alkoxy group which is substituted in the 2 or 3 position by a dimethylamino or piperidino group,

by an aminocarbonyl, C_{1-3} -alkylaminocarbonyl or di-(C_{1-3} -alkyl)aminocarbonyl group, wherein in each case the C_{1-3} -alkyl moieties may be
substituted by a methoxy or dimethylamino group, except in the 1 position,

the stereoisomers isomers and the salts thereof.

16. (currently amended) The compound of formula I according to claim 12, wherein

X and R₂ to R₄ are as hereinbefore defined,

R₁ denotes a hydrogen atom and

R₅ denotes a phenyl group which is substituted

by a methyl or ethyl group, each of which is substituted by an azetidin-1-yl, pyrrolidino, piperidino, hexamethyleneimino, morpholino, 1-oxido-thiomorpholino, piperazino, 4-methylpiperazino or 4-acetylpiperazino group, while the abovementioned piperidino groups may additionally be substituted by one or two methyl groups or in the 4 position may be substituted by a

hydroxy, methoxy, hydroxymethyl, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group,

by a straight-chain C_{1-2} -alkyl group which is terminally substituted by an amino group or by a C_{1-3} -alkylamino group, while the alkyl moiety of the C_{1-3} -alkylamino group may be substituted in positions 2 or 3 by a hydroxy or methoxy group and in the abovementioned groups the hydrogen atom present at the amino nitrogen may additionally be replaced

by a C_{3-6} -cycloalkyl group, by a C_{1-3} -alkyl group in which the alkyl moiety in positions 2 or 3 may be substituted by a hydroxy group, or by a C_{1-2} -alkylcarbonyl group substituted by an amino, methylamino or dimethylamino group,

by an ethyl group substituted in the 1 position by an amino group,

by an amino or C₁₋₃-alkylamino group in which the alkyl moiety may be terminally substituted by a carboxy, aminocarbonyl, methylaminocarbonyl, dimethylaminocarbonyl, N-(2-dimethylamino-ethyl)-aminocarbonyl or N-(2-dimethylamino-ethyl)-N-methyl-aminocarbonyl group or may be substituted in the 2 or 3 position by an amino, methylamino, dimethylamino, acetylamino, N-acetyl-methylamino or morpholino group, while the hydrogen

atom present at the amino nitrogen of the abovementioned groups may additionally be replaced

by a C_{2-4} -alkanoyl group which may be terminally substituted by an amino, acetylamino, pyrrolidino, piperidino, morpholino, piperazino or 4-methylpiperazino group or by a C_{1-3} -alkylamino, N-acetyl- C_{1-3} -alkylamino or di- $(C_{1-3}$ -alkyl)-amino group, while in the abovementioned C_{1-3} -alkylamino, N-acetyl- C_{1-3} -alkylamino or di- $(C_{1-3}$ -alkyl)-amino groups a C_{1-3} -alkyl moiety may additionally be substituted in the 2 or 3 position by a methoxy, dimethylamino or morpholino group,

by a C₁₋₄-alkylsulphonyl group which may be substituted in the 2 or 3 position by a dimethylamino group,

by a pyrrolidinosulphonyl group, an aminosulphonyl,

 C_{1-3} -alkylaminosulphonyl or di-(C_{1-3} -alkyl)-aminosulphonyl group, wherein in each case a C_{1-3} -alkyl moiety may be substituted by a carboxy, methoxycarbonyl, aminocarbonyl, methylaminocarbonyl or dimethylaminocarbonyl group or, except in the 1 position, by a dimethylamino group,

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by a C₁₋₃-alkoxy group substituted in the 2 or 3 position by a dimethylamino or piperidino group,

by an aminocarbonyl, C_{1-3} -alkylaminocarbonyl or di-(C_{1-3} -alkyl)aminocarbonyl group, wherein in each case a C_{1-3} -alkyl moiety may be
substituted by a methoxy or dimethylamino group, except in the 1 position,

the stereoisomers isomers and the salts thereof.

- 17. (previously presented) A pharmaceutical composition of matter comprising a compound of formula I as recited in Claim 12 wherein R1 denotes a hydrogen atom, a C₁₋₃- alkyl group or a prodrug group or a physiologically acceptable salt thereof, together with one or more inert carriers or dilutents.
- 18. (previously presented) A method for protecting proliferating cells in a warm-blooded animal from DNA damage caused by radiation, UV treatment or cytostatic treatment which comprises administering to said animal a therapeutically effective amount of a compound as recited in Claim 12.
- 19. (previously presented) A compound selected from the group consisting of:
 - (a) (Z)-3-[1-(4-dimethylaminomethyl-phenylamino)-1-phenyl-methylidene] 5-nitro-2-indolinone,

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- (b) (Z)-3-[1-(4-piperidinomethyl-phenylamino)-1-phenyl-methylidene]-5 nitro-2-indolinone,
- (c) (Z)-3-{1-[4-(2-morpholinoethyl)-phenylamino]-1-phenyl-methylidene}-5-nitro-2-indolinone,
- (d) (Z)-3-{1-[4-(2-dimethylamino-ethyl)-phenylamino]-1-phenyl-methylidene}-5-nitro-2-indolinone and
- (e) (Z)-3-{1-[4-(N-(2-dimethylamino-ethyl)-N-methylsulphonyl-amino)-phenylamino]-1-phenyl-methylidene}-2-indolinone; or a salt thereof.
- 20. (previously presented) The physiologically acceptable salt of a compound as recited in claim 19.